

Date: Thu, 22 Apr 93 12:46:47 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #491
To: Info-Hams

Info-Hams Digest Thu, 22 Apr 93 Volume 93 : Issue 491

Today's Topics:

16 Touch Tone Generator Needed
4sale: TRS-80 Model 102 laptop
5BWAZ QSL submissions??
Examination Opportunities Scheduled 4/21/93 to 8/30/93
Looking for stores in the Ogdensburg/Watertown area
MacIntosh Ham Stacks - new release
Motorola MICOR et. al.
QSL and 2X MODE
rec.radio.amateur.bulletin (Was Re: rec.radio.amateur reorg/RFD discussion summary
4/11)
Weekly Solar Terrestrial Forecast & Review for 23 April
What is the significance of '55'

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 22 Apr 93 12:31:28 EST
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa
Subject: 16 Touch Tone Generator Needed
To: info-hams@ucsd.edu

In article <C5uq6A.9un@cbnewsd.cb.att.com>, hoff@cbnewsd.cb.att.com
(julie.a.Finkey) wrote:

> I am looking for a device which will generate all 16 (sixteen)
> available Touch Tones for an application I have.
> A portable device which can generate the extra 4 TT signals
> over a calls' voice path would be great.

Dale-

Many, if not most, existing 12-button tone generators have the necessary electronics for the additional 4 tone pairs. All you need do is add 4 additional dpst normally open, momentary contact switches, and find the unused lead to the tone generator circuit. As an alternative, you might install a spdt toggle switch, to switch the 3rd column push button common lead between the 3rd column and 4th column tone leads.

In the old 12 button telephone pads that used the high group and low group tapped inductors, the high group inductor had one empty terminal. In electronic circuits, there are frequently 8 consecutive pins on the tone chip, with leads from the push buttons on 7 pins, and no connection to the 8th pin.

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: 22 Apr 93 10:18:10 EST
From: titan.ksc.nasa.gov!titan.ksc.nasa.gov!news@ames.arpa
Subject: 4sale: TRS-80 Model 102 laptop
To: info-hams@ucsd.edu

Just like model 100 with built-in basic, note, sched, word, and Telcom (communication via RS232 or built-in modem). It's in mint working condition. If you are a HAM, it's perfect for packet on the go.

Price is \$100 + shipping/COD.

I can be reached via Email or packet mail KQ4OY@n4awx.#cocoa.fl.usa.na
Please leave a msg (or a number I can reply sooner).

TNX
Tom

Date: 22 Apr 1993 15:19:31 GMT
From: sdd.hp.com!saimiri.primate.wisc.edu!usenet.coe.montana.edu!news.uoregon.edu!fp2-st-affairs-16.uoregon.edu!user@network.UCSD.EDU
Subject: 5BWAZ QSL submissions??
To: info-hams@ucsd.edu

Good week for QSL's. Got 4 new zones confirmed, so now have 153... enough for the initial 5BWAZ certificate.

MY QUESTION: When submitting the cards, do I have to submit all 153? Or do they keep a record of my regular WAZ record so I can leave out the zones I confirmed for my initial award?

Thanks for any input.
Steve/AA7FL
milewski@oregon.uoregon.edu

Date: Wed, 21 Apr 1993 18:46:00 MDT
From: dog.ee.lbl.gov!newshub.nosc.mil!vela.acs.oakland.edu!destroyer!cs.ubc.ca!
unixg.ubc.ca!kakwa.ucla.alberta.ca!alberta!adec23!usenet@network.UCSD.EDU
Subject: Examination Opportunities Scheduled 4/21/93 to 8/30/93
To: info-hams@ucsd.edu

AMATEUR RADIO EXAMINATION OPPORTUNITIES

Special Note: The FCC has announced that their license processing time is at 90 days--from the date they receive the application. The FCC usually receives the application one to two weeks after the test session (once the VE Team and the coordinating VEC have completed their processing).

This can mean that a license may not arrive until more than 100 or more days from the test session has elapsed.

Note: Codeless Technician to Technician w/HF upgraders (who pass a Morse code test) will not receive a new license from the FCC. The existing Technician license plus the CSCE conveying the Morse code test credit is the only documentation issued for use of the additional HF privileges.

The following test session information is provided by the ARRL/VEC for the upcoming six to eight week period. For further information, please contact the test session CONTACT PERSON at the telephone number provided. If necessary, you may contact the ARRL/VEC at 203-666-1541 x282 for additional information. Electronic mail may be forwarded to the ARRL/VEC via USENET at "bjahnke@arrl.org" or via MCI Mail to MCI ID: 215-5052.

Although the test session information presented here does not indicate whether walk-ins are accepted or not, most test sessions do allow walk-ins. We encourage you, however, to always contact the CONTACT PERSON at the telephone number provided so that the VE Team is aware that you be attending the test session.

STILL NEED TO PREPARE FOR YOUR EXAM?

If you would like information on how to become licensed; or how to locate Amateur Radio clubs, instructors, licensing classes and/or Novice examiners in your area; please contact the ARRL Educational Activities Department (EAD) at 203-666-1541 x219. The EAD can also provide information on recommended study materials. Electronic mail may be forwarded to the ARRL EAD via USENET at "rwhite@arrl.org" or via MCI Mail to MCI ID: 215-5052.

EXAM LISTINGS - DEFINITION OF FIELDS

STATE

Test Date,VEC,City,,Contact Phone,Contact Person

The SECOND field in the following listing specifies the VEC which is coordinating this examination. This single-character designator denotes the VEC as defined below. An "A" (for example) indicates that this examination is coordinated by the ARRL/VEC.

For further information on any examinations listed, or if you do not find any examinations listed for your area, you may contact any of the coordinating VECs below.

A = ARRL/VEC, 225 Main St, Newington, CT 06111; (d) 203-666-1541
The 1993 Test Fee is \$5.60.

X = Anchorage ARC, 2628 Turnagain Parkway, Anchorage, AK 99517;
(d) 907-786-8121, (n) 907-243-2221 (or) 907-276-5121
(or) 907-274-5546

C = Central Alabama VEC, 1215 Dale Dr SE, Huntsville, AL 35801;
205-536-3904

N = Charlotte VEC, 227 Bennett Ln, Charlotte, NC 28213;
704-596-2168

D = Great Lakes ARC VEC Inc., PO Box 273, Glenview, IL 60025;
708-486-8019

E = Golden Empire ARS, PO Box 508, Chico, CA 95927; No phone.

G = Greater Los Angeles ARG, 9737 Noble Ave, Sepulveda, CA 91343;
818-892-2068, 805-822-1473.

J = Jefferson ARC, PO Box 73665, Metairie, LA 70033; No phone

K = Koolau ARC, 45-529 Nakulua St, Kaneohe, HI 96744;
808-235-4132

L = Laurel ARC Inc., PO Box 3039, Laurel, MD 20709-0039;
(d) 301-572-5124, 301-317-7819, (n) 301-588-3924

M = The Milwaukee RAC Inc., 1737 N 116th St, Wauwatosa, WI 53226;
414-774-6999. Test fee for 1993 is \$5.00.

H = Mountain ARC, PO Box 234, Cumberland, MD 21502; 304-289-3576

P = PHD ARA Inc., PO Box 11, Liberty, MO 64068; 816-781-7313

R = Sandarc-VEC, PO Box 2446, La Mesa, CA 92044; 619-465-3926

S = Sunnyvale VEC ARC, PO Box 60142, Sunnyvale, CA 94088-0142;
408-255-9000

T = Triad Emergency ARC, 3504 Stonehurst Pl, High Point, NC 27260;
919-841-7576

W = Western Carolinas ARS VEC, 5833 Clinton Hwy - Suite 203,
Knoxville, TN 37912-2545; 615-688-7771.
The 1993 Test Fee is \$5.60.

5 = W5YI-VEC, PO Box 565101, Dallas, TX 75356-5101; 817-461-6443
The 1993 Test Fee is \$5.60.

EXAMINATION OPPORTUNITIES OUTSIDE THE UNITED STATES:

AMERICAN SOMOA

05/08/93,A,Mapusaga Village,,684-699-2420,Michael Homsany

AUSTRALIA

05/22/93,A,Australia,,089-531-305,Maury Hatfield

GREAT BRITAIN

05/16/93,A,Great Britain,,042-350-6988,Gerald Bliss

GUAM

07/04/93,A,Adelup,,627-646-7611,Harry Y Taguchi

NETHERLANDS ANTILLES

04/22/93,A,Netherlands Anti,,,Leston W Miller

US VIRGIN ISLANDS

05/15/93,A,ST Thomas,,809-774-6663,Kluas Willems

08/14/93,A,ST Thomas,,809-774-6663,Kluas Willems

*EOF

Date: Wed, 21 Apr 93 23:46:41 GMT

From: dog.ee.lbl.gov!hellgate.utah.edu!cs.utexas.edu!swrinde!gatech!

howland.reston.ans.net!torn!nott!cunews!revcan!balsam!cowan@network.UCSD.EDU

Subject: Looking for stores in the Ogdensburg/Watertown area

To: info-hams@ucsd.edu

I am looking for the names/addresses of decent stores that sell
2m / 70cm gear in the Ogdensburg/Watertown NY, or Kingston/Brockville
Ontario areas.

Here in Ottawa, there is but 1 store, and I'd like to shop around for a bit.

Thanks, 73

--

Darin Cowan - cowan@balsam.pinetree.org | I just try to make people's
VE3 OIJ | lives a little more surreal

Date: 22 Apr 1993 09:35:36 -0400

From: usc!howland.reston.ans.net!noc.near.net!genrad.com!genrad.com!not-for-
mail@network.UCSD.EDU

Subject: MacIntosh Ham Stacks - new release

To: info-hams@ucsd.edu

I've updated the Novice and Technician stacks to reflect the questions
as of July 1, 1993. Also, I need the US mail address of an FTP site for these
stacks (email me the address), so they will be available on-line.

Diana L. Carlson, KC1SP

LATEST VERSIONS: Novice v4.1, Technician v4.0, General v2.4,
Advanced v2.4, Extra v2.4

This is another announcement about the MacIntosh HamStacks which I have created. If you are not interested, press 'n' now.

I have created five HyperCard stacks to help people practice for the written Amateur Radio tests. There is one stack for each of Novice, Technician, General, Advanced and Extra questions. Each stack is an interactive multiple-choice test, created from the entire question pool for that class of license. The test is randomly generated, using the algorithms provided for each of the tests from ARRL, so this is a real-live simulation of the tests you will get in front of a VE. There are some print capabilities (you can print a test with a separate answer key, but it's slow. you can also print your results of how well you did, along with the accompanying correct answer key) and at the end of each test, it will tell you how well you did, allow you to review the missed questions, and allow you to take another randomly generated test. If you can consistently score over 90 on the tests, it's almost a sure guarantee that you will be able to take and pass the VE proctored test.

Note that these stacks will only work on a MacIntosh computer. HyperCard version 1.2 or later is required; they were generated with HyperCard version 1.2. Because HyperCard data is NOT stored in any ASCII form, there is no way that this data can be used on other computers, including IBM PCs, so please don't ask for the impossible. Also, I do NOT have access to email these stacks over the computerwaves, nor do I have ftp capability. There are ftp sites which (will?) are supporting these stacks via ftp, as follows:

```
/* THIS PARAGRAPH IS NOT UP-TO-DATE. THE LATEST STACKS ARE NOT AT ANY FTP
   SITE YET. I NEED AN ADDRESS FOR US MAIL TO SEND ONE.
These stacks are supported by ftp by Charley Kline, c-kline@uiuc.edu. To
access the files, type "ftp uxc.cso.uiuc.edu", log in as "anonymous", with
your email address as the password. Type "binary" at the prompt, then type
"cd pub/ham-radio". The five hamstacks are (eg): novice-v3.2.hqx.Z,
technician-v3.3.hqx.Z, general-v2.2.hqx.Z, advanced-v2.2.hqx.Z, and
extra-v2.2.hqx.Z (or similar names). To retrieve one of the files, (for
example, the Novice one), type "get novice-v3.2.hqx.Z". When you're finished
retrieving all the files you want, type "quit" to exit ftp. Each file must
be uncompressed before moving it to the Mac: "uncompress novice-v3.2.hqx.Z".
You need to use Kermit to transfer the files to the Macintosh. The files
must then be un-binxed by UnStuffit, then unstuffed by UnStuffit.
*/
```

The latest versions of the stacks are shown below, and are compressed with Stuffit Classic. UnStuffit is included on the diskette, and a copy of Morse

Tutor is also included on the diskette. The Novice and Technician ham stacks have the questions which will be valid as of July 1, 1993. Other stacks include my new name and address.

Novice version 4.1
Technician version 4.0
General version 2.4
Advanced version 2.4
Extra version 2.4

If you wish to receive these PUBLIC DOMAIN stacks from me, please send me a SASE (self addressed STAMPED envelope - 2 ounces postage = .52) and 800K diskette. I will no longer send out the stacks unless the envelope has sufficient postage for return mail (in general, that means .52-.98, depending on size of envelope) and for those who send a standard business envelope, I take no responsibility for the condition of the diskette through USnail.

Thank you for your attention.

Diana L. Carlson, KC1SP
3 Spruce Street
Hudson, NH 03051
Internet: dls@genrad.com

--
->Diana L. (Syriac) Carlson dls@genrad.com Ham: KC1SP (Sweet Pea) <-
->I'D RATHER BE FLYING! P-ASEL, INST CAP: CPT, Freedom 690 Mobile<-
->AD ASTRA, PER ASPERA Airplane: C-172 N6513E
<-
->GenRad, MS/6, 300 Baker Ave, Concord, Mass. 01742 (508)369-4400 x2459 <-

Date: Thu, 22 Apr 1993 12:11:16 GMT
From: agate!howland.reston.ans.net!zaphod.mps.ohio-state.edu!cs.utexas.edu!
csc.ti.com!tilde.csc.ti.com!fstop.csc.ti.com!sbrown@ames.arpa
Subject: Motorola MICOR et. al.
To: info-hams@ucsd.edu

In article <1993Apr21.220751.1@kean.ucs.mun.ca> jcraig@kean.ucs.mun.ca writes:

> > Be aware that MOCOM-70 radios date from the early 70's (and late 60's)
> > and are nearly impossible to get parts for. The most common failure in
> > them is the PTT/ant relay, and it's a custom jobbie. Second most
> > common in the UHF model is the tripler varactor.
> >
> > If you plan on using one in a serious way, buy two and use the second
> > for parts.
> >

> I've got a pair of these old things in my basement. I don't have the
> control head though :-(
> Could anybody give me the pinouts for the ptt, mic, and speaker? I
> can figure out the power connections...
> 73 Joe.

If these truly use the same cable set as the MICORs, I can provide the
pinouts. Can't do it off the top of my head, info is at home. I'll
dig it out and email it to you.

--

```
*****
| Steve Brown, WD5HCY          | Simplicate |
| sbrown@charon.dseg.ti.com    | and add   |
| wd5hcy@kf5mg.#dfw.tx.usa.na | lightness. |
| (214) 575-3597              |           |
| MSG:SBRN                    | - Bill   |
| MS 8496, PSK0               | Stout   |
*****
```

Date: 22 Apr 93 08:04:42 PDT
From: dog.ee.lbl.gov!newshub.nosc.mil!vela.acs.oakland.edu!destroyer!cs.ubc.ca!
unixg.ubc.ca!ucla-mic!MVS.OAC.UCLA.EDU!CSMSCST@network.UCSD.EDU
Subject: QSL and 2X MODE
To: info-hams@ucsd.edu

In article <1993Apr22.104639.10843@ghost.dsi.unimi.it>,
barp@ghost.dsi.unimi.it (andrea barp) writes:
>For example I've a nice collection of cards with a pre stamped array
>with 2X MODE column, but with a computer label on it saying only for
>example: IK2QCC 12.00 14 SSB 59. But the 2X where's gone?

Andrea,
I agree with you that such labels *should* state 2xSSB rather
than just SSB. It's a small effort and makes the QSL
unambiguous. Most 'professional' (IE, DXpedition) QSLers are
careful to do this. However, the actual occurrence of
crossmode QSOs these days is vanishingly small - I only have
one in my collection, a TL from the mid 1960s. He crossed out
the 2x and wrote "SSB-me". As near as I can recall, I must
have been on AM. Anyway, I would contend that the label you
describe pasted on a QSL card with a column for 2xMODE is the
same as writing in the column itself, a valid 2x confirmation.

Have you ever had one of these cards rejected for an award? If
so, which award. It would surprise me that any committee would
be so pickey. For example, when I read the ARRL's DXCC rules,

they seem to me to say that the card must state location (eg, country name) in addition to the callsign. But the DXCC desk seems to have no problem with accepting cards which only have a callsign as the indicator of the country.

-- 73 de Chris Thomas, AA6SQ (ex-WA6HTJ) (CSMSCST@MVS.OAC.UCLA.EDU)

Date: Thu, 22 Apr 93 14:57:09 GMT
From: destroyer!cs.ubc.ca!unixg.ubc.ca!kakwa.ucs.ualberta.ca!alberta!adec23!mark@uunet.uu.net
Subject: rec.radio.amateur.bulletin (Was Re: rec.radio.amateur reorg/RFD discussion summary 4/11)
To: info-hams@ucsd.edu

zawodny@arbd0.larc.nasa.gov (Dr. Joseph M Zawodny) writes:

>I would like to see the formation of the r.r.a.bulletins newsgroup with the
>sole purpose of its creation being to accept selected crossposts from
>rec.radio.info.

I'll do it! (if there be a vote) ;-)

If you read the FAQ for the rec.radio.info group, you will see examples of methods to filter out *just* the Amateur Radio related bulletins (Solar Reports notwithstanding at the moment, but I am working on it).

>My reasoning for creation being that information of this sort has wide appeal
>and should not get burried in a newsgroup with a "select" readership.

and rec.radio.amateur.bulletin would not? rec.radio.info has a far broader scope (I would hope ...)

>Follow on discussions would probably take place primarily in r.r.a.policy and
>r.r.a.operating.
<point taken>

Ciao -- 73 de VE6MGS/Mark -sk-

Date: 22 Apr 93 18:53:49 GMT
From: news-mail-gateway@ucsd.edu
Subject: Weekly Solar Terrestrial Forecast & Review for 23 April
To: info-hams@ucsd.edu

--- SOLAR TERRESTRIAL FORECAST AND REVIEW ---

April 23 to May 02, 1993

Report Released by Solar Terrestrial Dispatch

P.O. Box 357, Stirling, Alberta, Canada

T0K 2E0

Accessible BBS System: (403) 756-3008

SOLAR AND GEOPHYSICAL ACTIVITY FORECASTS AT A GLANCE

10-DAY SOLAR/RADIO/MAGNETIC/AURORAL ACTIVITY OUTLOOK

NOTE: We have replaced the "Solar Activity" column with forecast values of the 10.7 cm solar radio flux. These values are "best estimates" compiled at the time of this report.

	10.7 cm	HF Propagation +/- CON							SID	AU.BKSR DX				Mag	Aurora						
	SolrFlx	LO	MI	HI	PO	SWF	%MUF	%	ENH	LO	MI	HI	LO	MI	HI	%K	Ap	LO	MI	HI	
--	-----	-----							-----	-----				----	-----						
23	115	G	G	F	F	50	00	70	40	NA	NA	NA	02	05	15	35	3	12	NV	NV	MO
24	120	G	G	F	F	50	00	70	40	NA	NA	NA	02	05	20	35	3	12	NV	NV	MO
25	125	G	G	P	F	50	00	70	40	NA	NA	NA	02	10	30	30	3	15	NV	LO	MO
26	130	G	G	P	F	50	+05	70	40	NA	NA	NA	02	10	30	35	3	15	NV	LO	MO
27	130	VG	VG	F	G	50	+10	65	40	NA	NA	NA	02	10	25	40	3	12	NV	NV	LO
28	135	VG	VG	G	G	50	+15	65	40	NA	NA	NA	02	05	20	45	2	10	NV	NV	LO
29	135	VG	VG	G	G	45	+20	65	35	NA	NA	NA	02	05	20	40	2	10	NV	NV	LO
30	140	VG	G	F	F	45	+10	60	35	NA	NA	NA	02	10	30	35	3	14	NV	NV	LO
01	135	G	F	P	P	40	-05	55	30	NA	NA	NA	03	25	40	30	5	25	NV	LO	MO
02	130	G	F	P	P	40	-10	55	30	NA	NA	NA	03	20	35	25	4	22	NV	LO	MO

DEFINITIONS:

Date (day only)

10.7 cm SOLaR radio FLuX forecast

HF Propagation Conditions for LOw, MIddle, HIgh, and POlar areas (see below)

HF Short Wave Fade Probability (in %)

HF Maximum Usable Frequency in +/- percent above seasonal normals.

HF Prediction CONfidence Level (in %)

VHF Sudden Ionospheric ENHancement Probs (in %), weighted for low-mid lats

PROBability of "s"poradic E (Es) during the UT day for low, mid and high lats

VHF AUroral BackScatterR Probs (in %) for LOw, MIddle and HIgh Latitudes

VHF Overall Global DX Potential (in %) - weighted for Low and Middle latitudes

Geomagnetic Activity Kp Index (peak value - see below)

GeoMAGnetic Activity Ap Index (peak value - see below)

AURORAL Activity for LOw, MIddle and HIgh Latitudes (see below)

HF Prop. Quality rated as: EG=Extremely Good, VG=Very Good, G=Good, F=Fair, P=Poor, VP=Very Poor, EP=Extremely Poor.
 Probability of Sporadic E (Es) for the various latitudes is given in percent.
 Kp Planetary Index rated: 0=V.Quiet, 1=Quiet, 2=Unstld, 3=Active, 4=V.Active, 5=Minor Storm, 6=Major Storm, 7=Maj-Sev Storm, 8=Severe Storm, 9=V.Severe.
 Ap Planetary Index rated: 0-7=Quiet, 8-16=Unstld, 17-29=Active, 30-49=Minor Storm, 50-99=Major Storm, Severe Storm >=100.
 Auroral Activity rated: NV=Not Visible, L0=Low, M0=Moderate, HI=High, VH=Very High.

PEAK PLANETARY 10-DAY GEOMAGNETIC ACTIVITY OUTLOOK (23 APR - 02 MAY)

EXTREMELY SEVERE												HIGH
VERY SEVERE STORM												HIGH
SEVERE STORM												MODERATE
MAJOR STORM												LOW - MOD.
MINOR STORM										*		LOW
VERY ACTIVE									***	**		NONE
ACTIVE	*		**	**	*			**	***	***		NONE
UNSETTLED	***	***	***	***	***	***	***	***	***	***	***	NONE
QUIET	***	***	***	***	***	***	***	***	***	***	***	NONE
VERY QUIET	***	***	***	***	***	***	***	***	***	***	***	NONE
Geomagnetic Field	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		Anomaly
Conditions	Given in 8-hour UT intervals											Intensity

CONFIDENCE LEVEL: 70%

NOTES:

Predicted geomagnetic activity is based heavily on recurrent phenomena. Transient energetic solar events cannot be predicted reliably over periods in excess of several days. Hence, there may be some deviations from the predictions due to the unpredictable transient solar component.

60-DAY GRAPHICAL ANALYSIS OF GEOMAGNETIC ACTIVITY

102		S
97		S
92		S
87		S
82		S
77	J	S
71	J	S
66	J	S
61	J	S


```

091 | *****
087 | *****

```

Chart Start: Day #054

GRAPHICAL ANALYSIS OF 90-DAY AVERAGE SOLAR FLUX

```

138 |
137 |      ****
136 |      *****
135 | ***      *****
134 | *****
133 | *****
132 | *****
131 | *****
130 | *****
129 | *****

```

Chart Start: Day #054

NOTES:

The 10.7 cm solar radio flux is plotted from data reported by the Penticton Radio Observatory (formerly the ARO from Ottawa). High solar flux levels denote higher levels of activity and a greater number of sunspot groups on the Sun. The 90-day mean solar flux graph is charted from the 90-day mean of the 10.7 cm solar radio flux.

CUMULATIVE GRAPHICAL CHART OF SUNSPOT NUMBERS

```

170 |
163 |      *
156 |      ** *
149 |      *** *
142 |      * *****
135 |      ** *****
128 | ** ** *****
121 | *** ***** *
114 | ***** ***** *
107 | ***** *** * * *
100 | ***** * * * *** *
093 | ***** ** *** ** *****

```

```

086 | ***** ** *** ** ***** **** |
079 | ***** ***** ***** **** |
072 | ***** ***** ***** **** |
065 | ***** ***** **** |
058 | ***** ***** **** |
051 | ***** ***** **** |
044 | ***** ***** **** |
037 | ***** ***** **** |
030 | ***** ***** **** |
023 | ***** ***** **** |
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```

Chart Start: Day #054

NOTES:

The graphical chart of sunspot numbers is created from the daily sunspot number counts as reported by the SESC.

HF RADIO SIGNAL PROPAGATION PREDICTIONS (23 APR - 02 MAY)

High Latitude Paths

CONFIDENCE LEVEL ----- 70%	EXTREMELY GOOD												
	VERY GOOD												
	GOOD						*	*					
	FAIR	***	***	**	**	***	*	*	*	*	***	*	*
	POOR			*	*						*	*	*
	VERY POOR												
	EXTREMELY POOR												
-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	PROPAGATION	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
	QUALITY	Given in 8 Local-Hour Intervals											
-----		-----											

Middle Latitude Paths

CONFIDENCE LEVEL ----- 70%	EXTREMELY GOOD												
	VERY GOOD						*	*					
	GOOD	***	***	**	**	***	*	*	*	*	***	*	**
	FAIR			*	*						*	*	*
	POOR												
	VERY POOR												
	EXTREMELY POOR												
-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	PROPAGATION	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
	QUALITY	Given in 8 Local-Hour Intervals											
-----		-----											

Low Latitude Paths

CONFIDENCE LEVEL		EXTREMELY GOOD	VERY GOOD	GOOD	FAIR	POOR	VERY POOR	EXTREMELY POOR
75%						*	*	*
		***	***	***	***	*	*	*
PROPAGATION QUALITY		Fri	Sat	Sun	Mon	Tue	Wed	Thu
		Given in 8 Local-Hour Intervals						

NOTES:

NORTHERN HEMISPHERE

SOUTHERN HEMISPHERE

High latitudes ≥ 55	deg. N.		High latitudes ≥ 55	deg. S.
Middle latitudes $\geq 40 < 55$	deg. N.		Middle latitudes $\geq 30 < 55$	deg. S.
Low latitudes < 40	deg. N.		Low latitudes < 30	deg. S.

POTENTIAL VHF DX PROPAGATION PREDICTIONS (23 APR - 02 MAY)

INCLUDES SID AND AURORAL BACKSCATTER ENHANCEMENT PREDICTIONS

HIGH LATITUDES

FORECAST Given in 8 hour local time intervals											SWF/SID ENHANCEMENT										
CONFIDENCE Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun											F S S M T W T F S S										
----- --- --- --- --- --- --- --- --- --- ---											- - - - - - - - - - -										
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%										
60%	***	***	***	***	***	*	*	*	*	***	60%										
80%											80%										
100%											100%										
=====	===	===	===	===	===	===	===	===	===	===		-----									
100%											100%										
80%											80%										
60%											60%										
40%						*	*				40%								*	*	
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
-----	---	---	---	---	---	---	---	---	---	---		-	-	-	-	-	-	-	-	-	-
CHANCE OF	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
VHF DX	Given in 8 hour local time intervals											AURORAL BACKSCATTER									

MIDDLE LATITUDES

FORECAST	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT
CONFIDENCE	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	F S S M T W T F S S
-----	___	___	___	___	___	___	___	___	___	___	- - - - - - - - - -
0%	***	***	***	***	***	***	***	***	***	***	0% * * * * * * * * * *
20%	***	***	***	***	***	***	***	***	***	***	20% * * * * * * * * * *
40%	***	***	***	***	***	***	***	***	***	***	40% * * * * * * * * * *
60%	***	***	***	***	**	**	**	***	***	***	60%
80%											80%
100%											100%
=====	===	===	===	===	===	===	===	===	===	===	-----
100%											100%
80%											80%
60%											60%
40%	*	*	*	*	**	**	**	*			40%
20%	***	***	***	***	***	***	***	***	***	***	20% * *
0%	***	***	***	***	***	***	***	***	***	***	0% * * * * * * * * * *
-----	---	---	---	---	---	---	---	---	---	---	- - - - - - - - - -
CHANCE OF	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	F S S M T W T F S S
VHF DX	Given in 8 hour local time intervals										AURORAL BACKSCATTER
-----	-----										-----

LOW LATITUDES

FORECAST	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT
CONFIDENCE	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	F S S M T W T F S S
-----	___	___	___	___	___	___	___	___	___	___	- - - - - - - - - -
0%	***	***	***	***	***	***	***	***	***	***	0% * * * * * * * * * *
20%	***	***	***	***	***	***	***	***	***	***	20% * * * * * * * * * *
40%	***	***	***	***	***	***	***	***	***	***	40% * * * * * * * * * *
60%	***	***	***	***	***	***	***	***	***	***	60%
80%											80%
100%											100%
=====	===	===	===	===	===	===	===	===	===	===	-----
100%											100%
80%											80%
60%					*	*	*	*			60%
40%	***	***	***	***	***	***	***	***	***	***	40%
20%	***	***	***	***	***	***	***	***	***	***	20%
0%	***	***	***	***	***	***	***	***	***	***	0% * * * * * * * * * *
-----	---	---	---	---	---	---	---	---	---	---	- - - - - - - - - -
CHANCE OF	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	F S S M T W T F S S
VHF DX	Given in 8 hour local time intervals										AURORAL BACKSCATTER
-----	-----										-----

NOTES:

These VHF DX prediction charts are defined for the 30 MHz to 220 MHz bands. They are based primarily on phenomena which can affect VHF DX propagation globally. They should be used only as a guide to potential

DX conditions on VHF bands. Latitudinal boundaries are the same as those for the HF predictions charts.

AURORAL ACTIVITY PREDICTIONS (23 APR - 02 MAY)

High Latitude Locations

CONFIDENCE LEVEL ----- 70%	EXTREMELY HIGH											
	VERY HIGH											
	HIGH											
	MODERATE	*	*	*	*				*	**	**	*
	LOW	***	***	***	***	***	***	***	***	***	***	***
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***	***

	AURORAL	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	INTENSITY	Eve.Twilight/Midnight/Morn.Twilight										

Middle Latitude Locations

CONFIDENCE LEVEL ----- 70%	EXTREMELY HIGH											
	VERY HIGH											
	HIGH											
	MODERATE											
	LOW		*	*						*	*	
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***	***
-----		---	---	---	---	---	---	---	---	---	---	
	AURORAL	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	INTENSITY	Eve.Twilight/Midnight/Morn.Twilight										

Low Latitude Locations

CONFIDENCE LEVEL ----- 90%	EXTREMELY HIGH											
	VERY HIGH											
	HIGH											
	MODERATE											
	LOW											
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***	***
	-----	---	---	---	---	---	---	---	---	---	---	---
	AURORAL	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	INTENSITY	Eve.Twilight/Midnight/Morn.Twilight										

NOTE:

A Dynamic Auroral Oval Simulation and Prediction Software Package is available to help make predictions and show the locations where auroral

activity should be visible from the ground. For more information regarding this software, contact: "Oler@Rho.Uleth.CA", or "COler@Solar.Stanford.Edu".

For more information regarding these charts, send a request for the document, "Understanding Solar Terrestrial Reports" to: "Oler@Rho.Uleth.Ca" or to: "COler@Solar.Stanford.Edu". This document, as well as others and related data/forecasts exist on the STD BBS at: (403) 756-3008.

** End of Report **

Date: 22 Apr 93 17:36:08 GMT
From: news-mail-gateway@ucsd.edu
Subject: What is the significance of '55'
To: info-hams@ucsd.edu

The explanation of '55' I have seen (discussed in RADCOM some years back) went like this:

During WWII, ham radio in Germany was essentially banned except for operation under the supervision of Nazi officials. Operators were expected to send 'HH' (for 'heil Hitler') at the end of their transmissions. Some operators took to adding extra dots to the end of each 'H' so (HH) became (55).

Not sure if this is the truth, or whether its just another 'Urban myth'.

I have never sent HH, 55, 73 or anything like that, coz I dont work CW!

-Pete Lucas G6WBJ pjml%swmis.nsw.ac.uk@nsfnet-relay.ac.uk (Internet)
pjml@uk.ac.nsw.swmis (JANET)

Date: Thu, 22 Apr 93 15:11:24 GMT
From: gumby!destroyer!cs.ubc.ca!unixg.ubc.ca!kakwa.ucs.ualberta.ca!alberta!adec23!mark@yale.arpa
To: info-hams@ucsd.edu

References <bbCg03lmcJfJF00@amdahl.uts.amdahl.com>,
<1r0oahINN26v@rave.larc.nasa.gov>, <pschleck.735324083@cwis>kwa.
Subject : Re: rec.radio.amateur reorg/RFD discussion summary 4/11

pschleck@cwis.unomaha.edu (Paul W Schleck KD3FU) writes:

>Moderation has proven to be extremely light in practice.

Ouch, so my secret is out! ;-)

>Relatively
>straightfoward use of kill files and news administration techniques
>would allow the presentation of articles to be easily customized
>anyway.

This (or the education and side effects thereof) has been the most controversial part of the group ... I can not believe an 'information only' group could be controversial ;-}

>I would not be opposed to a bulletin newsgroup, provided it was
>moderated, and coordinated with the efforts of rec.radio.info to avoid
>redundancy.

Heck, it can be done automatically using the 'straightforward use of news administration techniques'. In fact, this group (well, rec.radio.amateur.info) existed on my machine as a local group (if the leaks be ignored ;-)) using one short sys line and a small shell script ...

Ciao -- Mark
Power hungry and in many kill files near you

End of Info-Hams Digest V93 #491
